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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/699,214	10/27/2000	Israel Lifshitz	6727/1H841-US1	8500	
7590 08/03/2004			EXAMINER		
Darby & Darby PC			SAM, PHIRIN		
805 Third Avenue New York, NY 10022			ART UNIT	PAPER NUMBER	
,			2661		
		•	DATE MAILED: 08/03/2004	7.	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	eation No.	Applicant(s)				
Office Action Summary		09/69	9,214	LIFSHITZ ET AL.				
		Exami	ner	Art Unit				
		Phirin		2661				
The M. Period for Reply	AILING DATE of this communi	cation appears on	the cover sheet with the	correspondence address	•			
THE MAILING - Extensions of tin after SIX (6) MO - If the period for - If NO period for - Failure to reply v Any reply receive	ED STATUTORY PERIOD FOR DATE OF THIS COMMUNING may be available under the provisions NTHS from the mailing date of this commetely specified above is less than thirty (30 reply is specified above, the maximum state within the set or extended period for reply do by the Office later than three months a madjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In n unication. or days, a reply within the tutory period will apply a will, by statute, cause the	o event, however, may a reply be ti statutory minimum of thirty (30) da nd will expire SIX (6) MONTHS from application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communicat ED (35 U.S.C. § 133).	tion.			
Status								
1)⊠ Respon	sive to communication(s) file	d on 27 October 2	2000.					
·	☐ This action is FINAL . 2b)⊠ This action is non-final.							
′ _	_							
<i>,</i> —	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of C	laims							
4)⊠ Claim(s	s) <u>1-52</u> is/are pending in the a	pplication.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
-	s) is/are allowed.							
6) Claim(s	☑ Claim(s) <u>1,4,7,11,12,18,22-27,30,33,37-39,44 and 48-52</u> is/are rejected.							
7) Claim(s	s) <u>2,3,5,6,8-10,13-17,19-21,28</u>	3,29,31,32,34-36,	40-43 and 45-47 is/are o	bjected to.				
8) Claim(s	s) are subject to restric	tion and/or election	on requirement.					
Application Pap	ers							
9)☐ The spe	cification is objected to by the	Examiner.						
•	D)⊠ The drawing(s) filed on <u>27 October 2000</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
-	nt may not request that any object		-					
Replace	ment drawing sheet(s) including	the correction is re-	quired if the drawing(s) is of	ojected to. See 37 CFR 1.121	1(d).			
11)∐ The oatl	n or declaration is objected to	by the Examiner	. Note the attached Office	Action or form PTO-152.				
Priority under 35	i U.S.C. § 119							
•	ledgment is made of a claim to b)	for foreign priority	under 35 U.S.C. § 119(a	ı)-(d) or (f).				
·—	Certified copies of the priority	documents have l	neen received					
	Certified copies of the priority			rion No				
	Copies of the certified copies		• •					
	pplication from the Internation	• •		ou in time (valiend) etage				
	attached detailed Office action	•	• "	ed.				
Attachment(s)		7)						
` ` `	ences Cited (PTO-892)	uni	4) Interview Summary	/ (PTO-413)				
2) D Notice of Drafts	person's Patent Drawing Review (P		Paper No(s)/Mail D	Pate				
 Information Dis Paper No(s)/Ma 	dosure Statement(s) (PTO-1449 or lail Date 4.6.	PTO/SB/08)	5) Notice of Informal I	Patent Application (PTO-152)				

Application/Control Number: 09/699,214

Art Unit: 2661

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1, 4, 7, 11, 12, 18, 22-27, 30, 33, 37-39, 44, and 48-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cai et al (U.S. Patent 6,536,001) in view of Hwang (U.S. Patent 6,501,791).

Cai et al discloses the invention (claims 1, 11-12, 18, 25-27, 37-38, 44, 51, and 52) as claimed including a data transmitter, comprising:

(a) a frame processor, adapted to arrange a predetermined quantity of the data together with one or more overhead bytes in an overhead frame (see Figs. 4 and 5, elements 64 and 66, col. 7, lines 45-67, and col. 8, lines 1-65).

Application/Control Number: 09/699,214

Art Unit: 2661

Cai et al does not disclose an encoder, adapted to divide the overhead frame into equal segments, each of the segments comprising a number of bits that is not necessarily an integer multiple of eight, and to encode each of the segments as a symbol for transmission over a communication channel. However, Hwang discloses the encoder for encoding each of the segments as the symbol for transmission (see Fig. 3, element 330, col. 4, lines 61-67, and col. 5, lines 1-4). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the encoder each of the segments as the symbol for transmission teaching by Hwang with Cai et al. The motivation for doing so would have been to provide to allocate a plurality of tone carriers in the communication system read on column 2, lines 49-51. Therefore, it would have been obvious to combine Hwang and Cai et al to obtain the invention as specified in the claims 1, 11, 12, 18, 25-27, 37, 38, 44, 51, and 52.

Regarding claims 4, 24, and 30, Cai et al discloses frame processor comprises a framer, and wherein the overhead bytes comprise one or more framing bytes introduced by the framer (see Fig. 4, col. 7, lines 45-56).

Regarding claims 7, 22, 23, 33, 39, and 48-50, Cai et al discloses frame processor comprises an error correction encoder, and wherein the overhead bytes comprise one or more error correction bytes generated by the encoder (see Fig. 4, col. 7, lines 56-62).

Allowable Subject Matter

4. Claims 2, 3, 5,6, 8-10, 13-17, 19-21, 28, 29, 31-32, 34-36, 40-43, and 45-47 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 09/699,214 Page 4

Art Unit: 2661

Conclusion

5. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Phirin Sam whose telephone number is (703) 308 - 9294. The Examiner can normally be reached on Monday - Friday from 8:30AM - 4:00PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Douglas W. Olms can be reached at (703) 305 - 4703. The fax number for the organization where this application or proceeding is assigned is (703) 872 - 9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217 - 9197 (toll-free).

Respectfully submitted,

Date: July 30, 2004

Phirin Sam

Patent Primary Examiner